

**EAST Search History****EAST Search History (Prior Art)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	("20030170664").PN.	US-PGPUB; USPAT	ADJ	ON	2009/12/07 11:08
S2	49	( "5279821" "99" "6043390" "71" "5397479" "99" "5482829" "99" "6027945" "99" "6063572" "99" "6153598" "99" "6221674" "99" "6221674" "99" "6333146" "99" "6368800" "99" "6376203" "99" "6447764" "99" "6451260" "99" "6511809" "99" "7326386" "99" "7354710" "99" "20020018998" "99" "20020051986" "99" "20030087436" "99" "20030134299" "99" "20050112658" "99" "20060065587" "99" "20060172642" "99" "20060239940" "99" "20060252718" "99" "20070026430" "99" "20070148649" "99" "20070244314" "99" "20090011949" "99" "20090023904" "99" "4330440" "73" "4455370" "73" "4756834" "73" "5340461" "73" "5618832" "73" "5885921" "73" "6203706" "73" "6248720" "73" "6414136" "73" "20040219586" "73" "20060243658" "73" "20070017870" "73" "20080154029" "73"	OR	ON	2009/12/07 13:14	

		"20090050566" "73" "6051429" "71" "4950744" "71" "5026840" "71" "5888783" "71" "5980861" "71").PN.			
S3	108	{"5279821" "99" "6043390" "71" "5397479" "99" "5482829" "99" "6027945" "99" "6063572" "99" "6153598" "99" "6221674" "99" "6221674" "99" "6333146" "99" "6368800" "99" "6376203" "99" "6447764" "99" "6451260" "99" "6511809" "99" "7326386" "99" "7354710" "99" "20020018998" "99" "20020051986" "99" "20030087436" "99" "20030134299" "99" "20050112658" "99" "20060065587" "99" "20060172642" "99" "20060239940" "99" "20060252718" "99" "20070026430" "99" "20070148649" "99" "20070244314" "99" "20090011949" "99" "20090023904" "99" "4330440" "73" "4455370" "73" "4756834" "73" "5340461" "73" "5618832" "73" "5885921" "73" "6203706" "73" "6248720" "73" "6414136" "73" "20040219586" "73" "20060243658" "73" "20070017870" "73" "20080154029" "73" "20090050566" "73" "6051429" "71" "4950744" "71" "5026840" "71" "5888783" "71"	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON 2009/12/07 13:33

S4	108	["5980861" "71").PN. ("5279821" "99" "6043390" "71" "5397479" "99" "5482829" "99" "6027945" "99" "6063572" "99" "6153598" "99" "6221674" "99" "6221674" "99" "6333146" "99" "6368800" "99" "6376203" "99" "6447764" "99" "6451260" "99" "6511809" "99" "7326386" "99" "7354710" "99" "20020018998" "99" "20020051986" "99" "20030087436" "99" "20030134299" "99" "20050112658" "99" "20060065587" "99" "20060172642" "99" "20060239940" "99" "20060252718" "99" "20070026430" "99" "20070148649" "99" "20070244314" "99" "20090011949" "99" "20090023904" "99" "4330440" "73" "4455370" "73" "4756834" "73" "5340461" "73" "5618832" "73" "5885921" "73" "6203706" "73" "6248720" "73" "6414136" "73" "20040219586" "73" "20060243658" "73" "20070017870" "73" "20080154029" "73" "20090050566" "73" "6051429" "71" "4950744" "71" "5026840" "71" "5888783" "71" "5980861" "71").PN.	OR	ON	2009/12/07 13:33
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S5	49	( "5279821" "99" "6043390" "71" "5397479" "99" "5482829" "99" "6027945" "99" "6063572" "99" "6153598" "99" "6221674" "99" "6221674" "99" "6333146" "99" "6368800" "99" "6376203" "99" "6447764" "99" "6451260" "99" "6511809" "99" "7326386" "99" "7354710" "99" "20020018998" "99" "20020051986" "99" "20030087436" "99" "20030134299" "99" "20050112658" "99" "20060065587" "99" "20060172642" "99" "20060239940" "99" "20060252718" "99" "20070026430" "99" "20070148649" "99" "20070244314" "99" "20090011949" "99" "20090023904" "99" "4330440" "73" "4455370" "73" "4756834" "73" "5340461" "73" "5618832" "73" "5885921" "73" "6203706" "73" "6248720" "73" "6414136" "73" "20040219586" "73" "20060243658" "73" "20070017870" "73" "20080154029" "73" "20090050566" "73" "6051429" "71" "4950744" "71" "5026840" "71" "5888783" "71" "5980861" "71").PN.	US-PGPUB; USPAT	OR	ON	2009/12/07 13:34
S6	24	("3591010"   "3865548" "4540625"   "5156811").PN. OR ("6451260").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/12/07 14:10

S7	10	("20010016178"   "20030170664"   "20040126890"   "4948564"   "5114858"   "5645723"   "6270970"   "6451260"   "6783732"   "6812012").PN. OR ("7429356").URPN.	US-PGPUB; USPAT; USOOR	ADJ	ON	2009/12/07 14:14
S8	5467	435/287.1-288.5.cols. and (filter or (porous with membrane))	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/12/07 14:43
S9	5320	435/287.1-288.5.cols. and (filter or (porous membrane))	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/12/07 14:44
S10	3229	S9 and @ay < "2004"	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/12/07 14:44
S11	2270	S9 and @py < "2004"	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/12/07 14:45
S12	1133	S11 and nucleic acid	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/12/07 14:45
S13	98	435/287.1-287.3.cols. and (porous with membrane) same nucleic acid	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/12/07 15:06
S14	98	435/287.1-287.3.cols. and (porous with membrane) same nucleic acid	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2009/12/07 15:06
S15	971	435/287.1-287.3.cols. and (porous with membrane)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2009/12/07 16:01
S16	316	435/287.1-287.3.cols. and (porous with membrane) and purification	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2009/12/07 16:02
S17	246	435/287.1-287.3.cols. and (porous with membrane) and purification and separation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2009/12/07 16:26
S18	113	435/287.1-287.3.cols. and (porous with membrane) and purification and separation and @ay < "2003"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2009/12/07 16:31

S19	441	435/6.ccls. and (porous with membrane) and purification and separation and @ay < "2003"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2009/12/07 18:37
S20	151	435/6.ccls. and (porous membrane) and purification and separation and @ay < "2003"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2009/12/07 18:38
S21	1	"6558947".pn.	US-PGPUB; USPAT	ADJ	ON	2009/12/08 12:57
S22	4	("4948564" "4014653" "5096575" "3932153").pn.	US-PGPUB; USPAT	OR	ON	2009/12/12 12:12
S23	189	stack with (tray or flask) same cells	US-PGPUB; USPAT	OR	ON	2009/12/12 18:55
S24	1	"4172013".pn.	US-PGPUB; USPAT	OR	ON	2009/12/12 19:23
S25	575	435/6.ccls. and cartridge and separation same purification	US-PGPUB; USPAT	ADJ	ON	2009/12/12 20:42
S26	339	S25 and @ay < "2004"	US-PGPUB; USPAT	ADJ	ON	2009/12/12 20:43
S27	330	S26 and nucleic acid	US-PGPUB; USPAT	ADJ	ON	2009/12/12 20:43
S28	18	S27 and porous membrane	US-PGPUB; USPAT	ADJ	ON	2009/12/12 20:44
S29	1	435/287.3-287.3.ccls. and cartridge and separation same purification	US-PGPUB; USPAT	ADJ	ON	2009/12/12 20:59
S30	89	435/287.1-287.3.ccls. and cartridge and separation same purification	US-PGPUB; USPAT	ADJ	ON	2009/12/12 20:59
S31	0	"435".clas. and cartridge and separation same purification an porous membrane and nucleic acid	US-PGPUB; USPAT	ADJ	ON	2009/12/12 21:17
S32	74	"435".clas. and cartridge and separation same purification and porous membrane and nucleic acid	US-PGPUB; USPAT	ADJ	ON	2009/12/12 21:18

S33	194	"435".clas. and (device or apparatus) and separation same purification and porous membrane and nucleic acid	US-PGPUB; USPAT	ADJ	ON	2009/12/12 21:26
S34	3	("20030170664"   "4551389"   "5522991").PN.	US-PGPUB; USPAT	ADJ	ON	2009/12/12 21:46
S35	4108	"435".clas. and (device or apparatus) and separation same purification and filter and nucleic acid	US-PGPUB; USPAT	ADJ	ON	2009/12/14 15:51
S36	0	"435".clas. and (device or apparatus) separation same purification and filter and nucleic acid and porous	US-PGPUB; USPAT	ADJ	ON	2009/12/14 15:52
S37	93	"435".clas. and (device or apparatus) same separation same purification and filter and nucleic acid and porous	US-PGPUB; USPAT	ADJ	ON	2009/12/14 15:53
S38	9	fuji.as. and separation same purification and filter and nucleic acid and porous	US-PGPUB; USPAT	ADJ	ON	2009/12/14 16:04
S39	9	fuji.as. and separation same purification and filter and nucleic acid and porous	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/12/14 16:04
S40	10	fuji.as. and separation same purification and filter and nucleic acid and porous	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2009/12/14 16:04
S41	2	"20020179520".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2009/12/14 16:46
S42	2	"6159368".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2009/12/14 16:57

S43	95	( "4167875"   "4246339" "4304865"   "4734192" "4902481"   "4927604" "4948442"   "4948564" "5047215"   "5108704" "5110556"   "5116496" "5141719"   "5201348" "5227137"   "5264184" "5282543"   "5283039" "5326533"   "5342581" "5352086"   "5368729" "5380437"   "5401637" "5409832"   "5464541" "5516490"   "5604130" "5650323"   "5665247" "5679310"   "5721136" "5736105"   "5736106" "5741463"   "5792425" "5846493").PN. OR ("6159368").URPN.	US-PGPUB; USPAT; USOOR	ADJ	ON	2009/12/15 10:32
S44	10	(cartridge and nucleic acid and (discharge or outlet) and thick\$).clm.	US-PGPUB	ADJ	ON	2009/12/15 10:43
S45	1	(cartridge and nucleic acid and injection with molding die and core pin ).clm.	US-PGPUB	ADJ	ON	2009/12/15 11:00
S48	3013	microwell and high throughput	US-PGPUB; USPAT	ADJ	ON	2010/09/10 03:29
S49	1	"6159368".pn.	US-PGPUB; USPAT	ADJ	ON	2010/09/10 11:37
S50	0	435/287.1-287.3.cols. and (cylindrical or tube or container)with opening same (filter or porous with (layer or membrane)) and nucleic acid and (protrusion or ribs)	US-PGPUB; USPAT	ADJ	ON	2010/09/10 14:14
S51	3	435/287.1-287.3.cols. and (cylindrical or tube or container)with opening same (filter or porous with (layer or membrane)) and nucleic acid and (protrusion or ribs or support with structure or buttresses )	US-PGPUB; USPAT	ADJ	ON	2010/09/10 14:16

S52	10	435/287.1-287.3.cds. and (cylindrical or tube or container)with opening same (filter or porous with (layer or membrane)) and nucleic acid and (protrusion or ribs or support with structure or buttresses )	US_PGPUB; USPAT	ADJ	ON	2010/09/10 14:16
S53	10	435/287.1-287.3.cds. and (cylindrical or tube or container)with opening same (filter or porous with (layer or membrane)) and nucleic acid and (protrusion or ribs or support with structure or buttresses )	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/09/10 14:16
S54	84	(cylindrical or tube or container)with opening same (filter or porous with (layer or membrane)) and nucleic acid and (protrusion or ribs or support with structure or buttresses )	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/09/10 14:20
S55	21	(column)with opening same (filter or porous with (layer or membrane)) and nucleic acid and (protrusion or ribs or support with structure or buttresses )	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/09/10 14:27
S56	1885	(column)same (filter or porous with (layer or membrane)) and nucleic acid and (protrusion or ribs or support with structure or buttresses )	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/09/10 14:29
S57	619	(column)with (filter or porous with (layer or membrane)) and nucleic acid and (protrusion or ribs or support with structure or buttresses )	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/09/10 14:29
S58	317	(column)with (filter or porous with (layer or membrane)) and nucleic acid and (protrusion or ribs or support structure or buttresses )	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/09/10 14:30

S60	79	((column)same (filter or porous with (layer or membrane))same (protrusion or ribs or support with structure or buttresses ) and nucleic acid	US_PGPUB; USPAT; USOOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/09/10 14:31
S61	1	((column or cylindrical or tube )same (filter or porous with (layer or membrane))same (protrusion or ribs or support with structure or buttresses ) and nucleic acid same slope).clm.	US_PGPUB	ADJ	ON	2010/09/10 14:35
S62	10	435/6.cols. and (cylindrical or tube or container or column)with opening same (filter or porous with (layer or membrane)) and nucleic acid and (protrusion or ribs or support with structure or buttresses )	US_PGPUB; USPAT; USOOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/09/10 14:36
S63	13	435/6.cols. and (cylindrical or tube or container or column)with opening same (filter or porous with (layer or membrane)) and nucleic acid and hydrophilic\$ with (resin or material or layer)	US_PGPUB; USPAT; USOOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/09/10 14:38
S64	4	435/287.1-287.3.cols. and (cylindrical or tube or container or column) with opening same (filter or porous with (layer or membrane)) and nucleic acid and hydrophilic\$ with (resin or material or layer)	US_PGPUB; USPAT; USOOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/09/10 14:42
S65	5	( cylindrical or tube or container or column)with opening same (filter or porous with (layer or membrane)) and nucleic acid and hydrophilic\$ with (resin or material or layer)).clm.	US_PGPUB	ADJ	ON	2010/09/10 14:43

S66	0	( (cylindrical or tube or container or column)with opening same (filter or porous with (layer or membrane)) and nucleic acid and bubble same (guide or trap) ).clm.	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/09/10 14:44
S67	1	( (cylindrical or tube or container or column)with opening same (filter or porous with (layer or membrane)) and nucleic acid and bubble same (guid\$ or trap) ).clm.	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/09/10 14:45
S71	1	"6159368".pn.	US_PGPUB; USPAT	ADJ	ON	2011/01/14 15:58
S72	19	("3658183"   "3823824"   "3834543"   "3932153"   "4287065"   "4614585"   "4902415").PN. OR ("5096575").URPN.	US_PGPUB; USPAT; USOCR	ADJ	ON	2011/01/14 18:02
S73	39	fuji.as. and cartridge and (filter or membrane) and nucleic acid	US_PGPUB; USPAT	ADJ	ON	2011/01/14 18:49
S74	120	fuji.as. and cartridge and (filter or membrane) and nucleic acid	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2011/01/14 18:49
S75	752	"210".clas. and cartridge same (filter or membrane) and void	US_PGPUB; USPAT	ADJ	ON	2011/01/14 20:09
S76	5	"210".clas. and cartridge same (filter or membrane)same void and nucleic acid	US_PGPUB; USPAT	ADJ	ON	2011/01/14 20:10
S77	223	"210".clas. and cartridge same (filter or membrane) and nucleic acid	US_PGPUB; USPAT	ADJ	ON	2011/01/14 20:11
S78	1	"5833860".pn.	US_PGPUB; USPAT	ADJ	ON	2011/01/14 20:30

S79	67	("3407096"   "3407249" "3591010"   "3888629" "4153661"   "4208194" "4350594"   "4373519" "4460642"   "4565663" "4632761"   "4663049" "4699717"   "4705753" "4722898"   "4755301" "4774058"   "4797259" "4810381"   "4871671" "4906378"   "4971697" "4971736"   "5003047" "5019232"   "5071610" "5112490"   "5113860" "5124041"   "5147539" "5207915"   "5209967" "5234840"   "5238621" "5248428"   "5259951" "5264184"   "5275880" "5278377"   "5279742" "5288415"   "5328756" "5328758"   "5340746" "5354603"   "5366632" "5383573"   "5391298").PN. OR ("5833860").URPN.	US-PGPUB; USPAT; USOOR	ADJ	ON	2011/01/14 20:31
S80	0	"210".clas. and (filter or membrane) same rim with void and nucleic acid with (extraction or separation)	US-PGPUB; USPAT	ADJ	ON	2011/01/14 20:35
S81	0	"210".clas. and (filter or membrane) and rim with void and nucleic acid with (extraction or separation)	US-PGPUB; USPAT	ADJ	ON	2011/01/14 20:35
S82	3	"210".clas. and (filter or membrane) and rim with (void or air) and nucleic acid with (extraction or separation)	US-PGPUB; USPAT	ADJ	ON	2011/01/14 20:36
S83	2	"210".clas. and (filter or membrane) with rim and nucleic acid with (extraction or separation)	US-PGPUB; USPAT	ADJ	ON	2011/01/14 20:37
S84	37	210/321.87-500.3.ccls. and (filter or membrane) same nucleic acid with (separation or extraction )	US-PGPUB; USPAT	ADJ	ON	2011/01/14 20:40

S85	19	(membrane or filter) with rim with void	US_PGPUB; USPAT	ADJ	ON	2011/01/15 17:01
S86	11	435/287.2.ccls. and (filter or porous with membrane) same rim and cylindrical	US_PGPUB; USPAT; USOOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2011/03/03 20:08
S87	41	("3312221"   "3817837" "4353868"   "4374925" "4473530"   "4492258" "4573983"   "4632901" "4661100"   "4685472" "4729875"   "4797260" "4823461"   "4953561" "5016644"   "5022411" "5024237"   "5026653" "5038793"   "5077012").PN. OR ("5358690").URPN.	US_PGPUB; USPAT; USOOCR	ADJ	ON	2011/03/03 20:13
S88	5	435/6.ccls. and (filter or porous with membrane) same rim and cylindrical	US_PGPUB; USPAT; USOOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2011/03/03 20:17

3/ 9/ 2011 1:18:28 AM

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